DRAFT

COE 36-Month Plan Update

January 2002 CRCB

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January 30, 2002

Purpose of Plan Update

- **CRCB AI 99-023: Update the 36-month plan every six months**

We Need A New Strategy For The COE

- **Current business model no longer provides best value from constrained resources**
  - **Too much feature tradeoff against schedules**
  - **Too frequent rebaselining of COE product line**
  - **Too little community involvement in developing product line**
  - **Too tied to specific vendors**
  - **Too many software baselines and configurations**

What Needs To Stay The Same?

- **Focus on C4I community as core customers**
  - **Situational Awareness as key problem to be solved**
- **Conviction about and focus on Joint/Enterprise solutions**
  - **A rational solution**
  - **Best value**
  - **Interoperability across DoD**
  - **Need conviction because Joint/Enterprise focus is politically more difficult than settling for stovepipes**
- **Commitment to supporting current C4I system fielding schedules**

What Needs To Stay The Same? (Concluded)

- **Conviction that standards are necessary but not sufficient for interoperability**
  - **Implementations are the key**
  - **COE must continue to provide software and data products**
- **COE must provide platform solutions**
  - **Preserve benefits of software packaging for easy install/de-install and “peaceful coexistence”**
  - **Standard (but tailorable) security configurations appropriate for C4I systems**
- **Market-driven data strategy**

What Needs To Change?

- **COE must provide guidance and products that support network-centric operations**
  - **Move beyond systems to network capabilities**
- **The COE product line**
  - **Update COE taxonomy as necessary**
  - **Develop clear criteria for accepting products**
  - **Balance numbers of baselines with resources**
  - **Rebaseline only as needed**
- **COE's approach to schedules**
  - **Continue working closely with customers**
  - **Establish schedules based on agreed-upon feature sets and quality criteria, not merely the calendar**

What Needs To Change? (Concluded)

- **Rebalance approach to Unix and Windows**
  - **Presume heterogeneous servers, Windows clients and PDAs**
  - **Leverage individual platform strengths (e.g., Logo program) and attack weaknesses (e.g., Unix installer)**
    - **Less emphasis on Unix clients, Unix/Windows consistency**
- **Strengthen partnerships with industry and community in developing COE product line**
  - **Keeps COE open to industry innovation**
  - **Community ensures COE meets its requirements, by jointly buying and building components**

36 Month Plan (Objectives)

- Focus on maturing 4.x (Tiger Team)
- Expand COE Community Process (if pilot is successful)
- Move COE to a largely commercial service-based architecture (5.x)
- Add realtime services
- Mature the COE's market-driven data strategy
- Transition KPC to industry
- Manage smooth transitions of major contracts (ICSF Competitive, NGE)
- Reduce numbers of supported reference platforms

Focus on Maturing 4.x

- **Issue**
  - **Need product suitable for C2 Flagship Program DT/OT**
- **Actions**
  - **Dedicated team to wring out and mature product**
  - **Specific exit criteria**
    - **Close all pri-1/2 GSPRs**
    - **Full 3.X functional equivalency**
    - **All new functionality properly working**
    - **All stability, reliability, and performance issues addressed**
  - **Provide assurance to customers that COE segments work together as expected**
  - **Support developers with periodic developer releases (formal release with mature capability)**
  - **Feature additions once stable foundation in place**

Move COE to a Largely Commercial Service-Based Architecture (5.x)

- **Issue**
  - **Industry is migrating to service-based architectures (technology as enabler)**
- **Actions**
  - **Develop roadmap for COE transition**
  - **Incorporate service-based approach in acquisitions**
  - **Provide critical infrastructure (plumbing) to enable key services**

Mature the COE's Market-Driven Data Strategy

- **Issues**
  - **Data interoperability is different (Not infrastructure per se… it's intimate with user's jobs)**
  - **Service-based approach depends on shared knowledge about what the data means**
- **Actions**
  - **Leverage market-driven approach to define needed data services within enterprise**
  - **XML-enable the enterprise with clear understanding of relationships and semantics within COIs**
  - **Expand to tactical message exchange**
    - **Introduce XML binary / XML compression**
    - **Define XML equivalents for existing message standards**

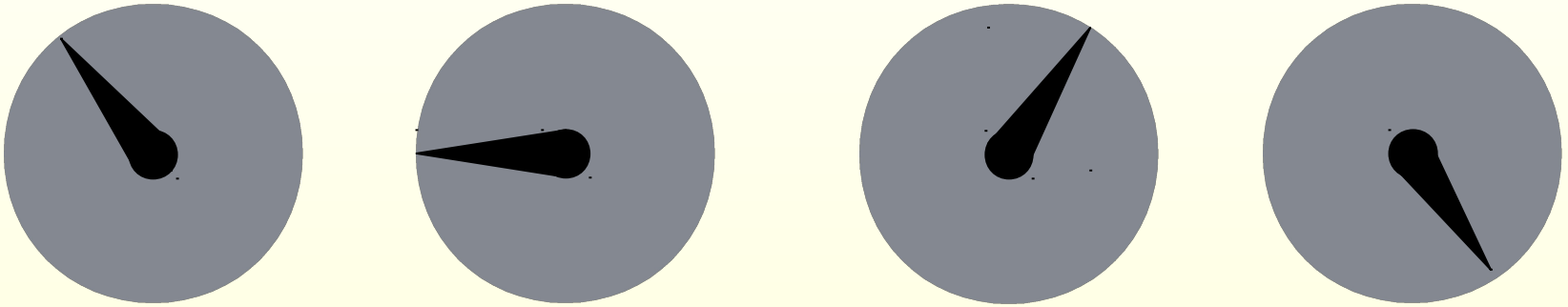
Reduce Numbers of Supported Reference Platforms

- **Issues**
  - **27 different baselines supported today**
  - **Resources being applied to production which could be better applied to adding services**
- **Actions**
  - **Single Unix/Linux reference platform**
  - **Single WINTEL reference platform (e.g., W2K for current Tiger Team effort)**
  - **Reference platforms “as commercial as possible”**
  - **If additional platforms required, funded by industry or community**
  - **Continued support for current C2 Flagship platforms (maintenance, minimal feature addition)**

What does this mean to the schedule?

Revised COE Software Delivery Strategy

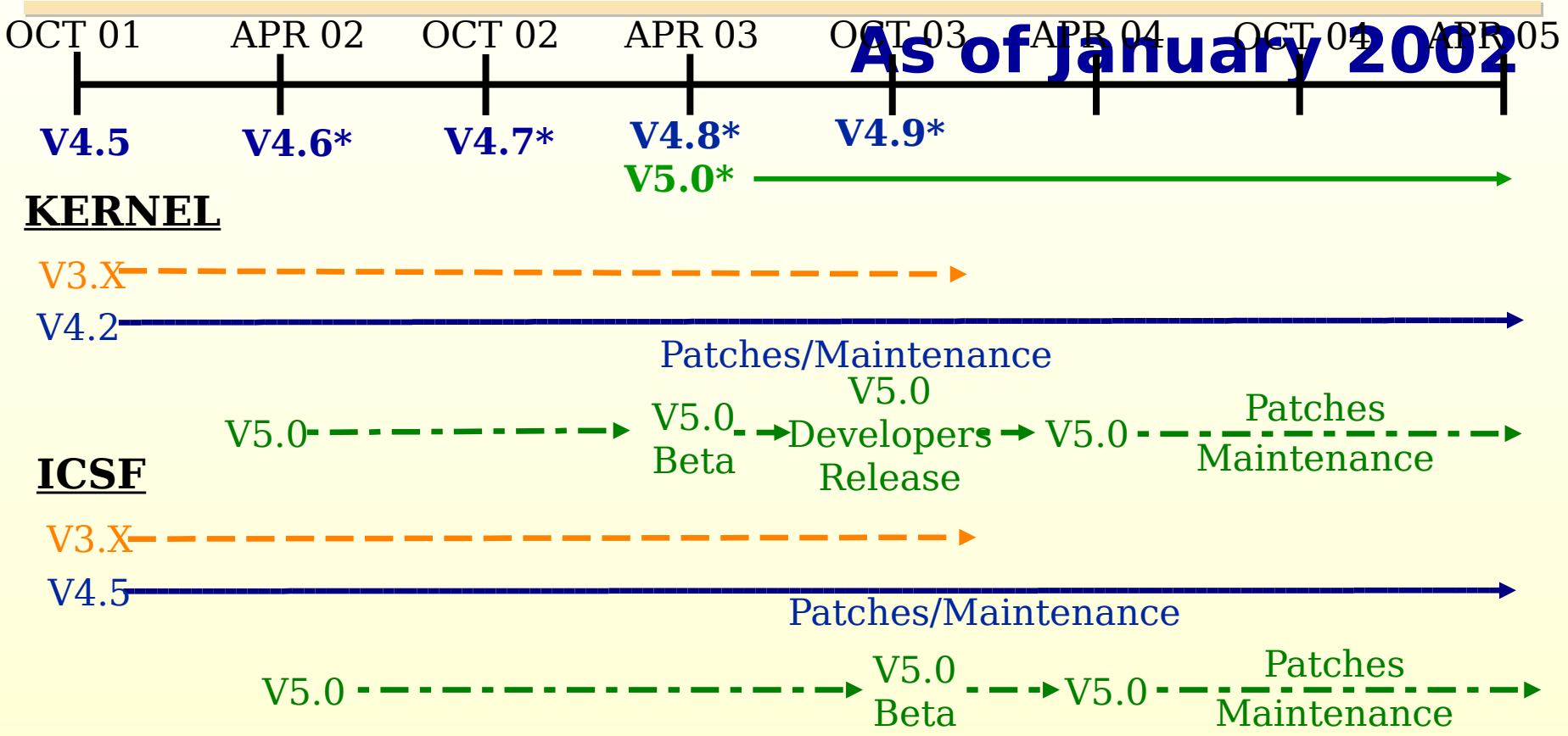
Cost | Schedule | Features | Quality



- **Historically**
  - **Schedule, Cost fixed in place**
  - **Features, Quality whatever they are on release date**
  - **Continuous rebaselining of COE product line**
- **Going forward**
  - **Community agrees on Features in advance**
  - **Quality standards set**
  - **Schedule, Cost adjusted to deliver Features, Quality**

Proposed COE Delivery Plan

As of January 2002



*** Approximate delivery based on user prioritization/produc**

DEFENSE INFORMATION SYSTEMS AGENCY

Expand COE Community Process

- **Issue**
  - **Need for collaborative engineering process for common services**
- **Actions**
  - **Refine community process through the Web COP effort**
  - **Define other service areas that could benefit by a community process**
  - **Focus resources towards coordinating efforts**

Add Realtime Services

- **Issues**
  - **Robust computing and real-time services needed to support more tactical users**
  - **Better processing needed to support ISR and TADIL data in the COP**
- **Actions**
  - **Near term focus on Infrastructure services and kernel**

Transition KPC to Industry

- **Issues**
  - **KPC has been successful for Kernel**
  - **Vendors need more to be competitive (e.g., COP)**
  - **Industry capable of self regulating**
- **Actions**
  - **Transition KPC responsibility to industry**
  - **Reduce government KPC role to defining requirements/test cases for reference implementation**

Manage Smooth Transitions of Major Contracts

- **Issues**
  - **ICSF contract to expire Feb 03 (Competitive RFP in process)**
  - **New contract for other development services (NGE)**
  - **Constraint: 25% must be awarded to small businesses operating as prime contractors**
- **Actions**
  - **Transition development activities to, potentially, new developers/integrators**
  - **Focus effort for ICSF follow-on to service-based architecture**